

VME Intensity Monitor - Bug #11275

Milestone # 10477 (New): ANUB Startup

anub is randomly crashing once every few days

12/21/2015 10:44 AM - John Diamond

Status:	Closed	Start date:	12/21/2015
Priority:	Normal	Due date:	
Assignee:	John Diamond	% Done:	100%
Category:		Estimated time:	0.00 hour
Target version:		Spent time:	1.50 hour
Description			
I found anub had crashed sometime between Friday night and Sunday morning this weekend. The same thing happened earlier in the week and could possibly be a memory leak (received an FTP_OUT_OF_MEM error when I tried to plot).			

History

#1 - 12/22/2015 07:28 PM - John Diamond

Noticed that both the cycle device task and beam energy loss task crashed on a data access exception.

#2 - 12/31/2015 04:24 PM - John Diamond

Changed the priority of the Cycle Device task from 5 to 65 to match the BEL task.

#3 - 01/01/2016 03:51 PM - John Diamond

Suspect that there might be a race condition in ::attach / ::detach so I added a mutex for the EvtTrigTclkEventGenerator listener table.

#4 - 01/02/2016 07:28 PM - John Diamond

- Status changed from New to Assigned

Problems persist. Despite adding a mutex to the EvtTrigTclkEventGenerator listener table and running the Cycle Device & BEL tasks at the same priority, we still get a data access exception in the BEL Task after a couple of hours of operation. Suspect that we could have an errant iterator in the BEL average calculation code. Disabled that method for now and we'll see if the problem persists.

#5 - 01/02/2016 10:08 PM - John Diamond

Implemented CD's TRACE facility for logging error messages, see [#11021](#).

#6 - 01/03/2016 03:23 PM - John Diamond

<http://stackoverflow.com/questions/3901356/deleting-while-iterating>

#7 - 01/04/2016 12:04 PM - John Diamond

anub has been stable for over 36 hours now, assuming that the source of the data exception was in BELMachine::_updateAvgs(). Used the method linked above to de-queue the BEL samples > 1 hour old in ::_updateAvgs(). Re-compiled and deployed to anub. Will wait another 36 hours to see if we solved the problem.

#8 - 01/06/2016 01:11 PM - John Diamond

- Status changed from Assigned to Closed

- % Done changed from 0 to 100

Stable now for 2 days, closing.